

Patent Claims

a What is Claimed is

1. An electronic tripping device, in particular for low-voltage circuit-breakers, having adjusting and display elements for the tripping parameters to be adjusted, such as for the tripping current in the case of overload and for the corresponding delay time, the switching and display elements cooperating with adjusting devices for the parameters, and the adjusting and display elements being mounted at an operating face of the tripping device, characterized in that key switches (14 through 16) and LCD elements (2 through 9a) are provided as adjusting and display elements.

2. The electronic tripping device as recited in Claim 1, characterized in that an LCD element (2 through 9a) is provided as display element for each parameter to be adjusted, and in that only one key set composed of three keys (14 through 16) is provided as adjusting element for all LCD elements (2 through 9a) together.

3. The electronic tripping device as recited in Claim 1, characterized in that, for adjusting the tripping values and, consequently, for controlling the LCD display elements (2 through 9a) via the shared key set (14 through 16), the following mode is provided:

- Key 1: Selection of the desired entry field;
- Key 2: Calibration;
- Key 3: Activation of the display fields in the absence of auxiliary power.

4. The electronic tripping device as recited in Claim 1, characterized in that the LCD displays (2 through 9a) are bar displays.

5. The electronic tripping device as recited in Claim 1, characterized in that the LCD displays (2 through 9a) are

alphanumeric displays.

6. The electronic tripping device as recited in Claim 4, characterized in that, in the case of bar displays, a scale (11) is arranged next to the LCD display (2 through 9a).

7. The electronic tripping device as recited in Claim 4, characterized in that the LCD display (2 through 9a) is designed in the form of a bar (10) which moves along the scale (11) as a narrow line according to the value to be displayed.

8. The electronic tripping device as recited in Claim 4, characterized in that the LCD display (2 through 9a) is designed in the form of a bar (12) having a differing height according to the parameter value to be displayed, the upper end of the bar indicating the value to be adjusted at the scale (11).

9. The electronic tripping device as recited in Claim 1, characterized in that LCD elements are provided which permanently present the information to be displayed without supply of energy, subsequent to feeding the information to the display.

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